Hydric Soils

Yellow Medicine County, Minnesota

[This report lists only those map unit components that are rated as hydric. Dashes (---) in any column indicate that the data were not included in the database. Definitions of hydric criteria codes are included at the end of the report]

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
31E:					
Storden loam, 18 to 25 percent slopes	Storden	85	Moraines	No	---
	Calco	5	Flood plains	Yes	2B3
	Du Page	4	Flood plains	No	---
	Canisteo	3	Flats	Yes	2B3
	Webster	2	Flats	Yes	2B3
	Terril	1	Moraines	No	---
31F:					
Storden loam, 25 to 40 percent slopes	Storden	85	Moraines	No	---
	Calco	6	Flood plains	Yes	2B3
	Du Page	5	Flood plains	No	---
	Terril	4	Moraines	No	---
35:					
Blue Earth silt loam	Blue Earth	85	Depressions	Yes	2B3, 3
	Canisteo	6	Flats	Yes	2B3
	Oldham	5	Depressions	Yes	2B3, 3
	Vallers	4	Flats	Yes	2B3
85:					
Calco silty clay loam, occasionally flooded	Calco, occasionally flooded	85	Flood plains	Yes	2B3
	Du Page	6	Flood plains	No	---
	Nishna	5	Flood plains	Yes	2B3
	Zumbro	4	Flood plains	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
86:					
Canisteo clay loam	Canisteo	85	Flats	Yes	2B3
	Glencoe	6	Depressions	Yes	2B3, 3
	Webster	5	Flats	Yes	2B3
	Seaforth	4	Moraines	No	---
94B:					
Terril loam, 2 to 6 percent slopes	Terril	86	Moraines	No	---
	Du Page	14	Flood plains	No	---
94C:					
Terril loam, 6 to 12 percent slopes	Terril	86	Moraines	No	---
	Du Page	14	Flood plains	No	---
108:					
McIntosh silt loam, 1 to 3 percent slopes	McIntosh	85	Moraines	No	---
	Doland	6	Moraines	No	---
	Tara	5	Moraines	No	---
	Spicer	4	Flats	Yes	2B3
113:					
Webster clay loam	Webster	85	Swales	Yes	2B3
	Glencoe	5	Depressions	Yes	2B3, 3
	Okoboji	4	Depressions	Yes	2B3, 3
	Canisteo	3	Flats	Yes	2B3
	Fulda	2	Flats	Yes	2B3
	Normania	1	Moraines	No	---
127A:					
Sverdrup fine sandy loam, 0 to 2 percent slopes	Sverdrup	86	Moraines	No	---
	Egeland	14	Outwash plains	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
127B:					
Sverdrup fine sandy loam, 2 to 6 percent slopes	Sverdrup	86	Moraines	No	---
	Egeland	14	Moraines	No	---
127C:					
Sverdrup sandy loam, 6 to 12 percent slopes	Sverdrup	85	Moraines	No	---
134:					
Okoboji silty clay loam	Okoboji	85	Depressions	Yes	2B3, 3
	Vallers	6	Flats	Yes	2B3
	Canisteo	5	Flats	Yes	2B3
	Spicer	4	Flats	Yes	2B3
137:					
Dovray silty clay	Dovray	85	Depressions	Yes	2B3, 3
140:					
Spicer silty clay loam	Spicer	85	Flats	Yes	2B3
	Okoboji	5	Depressions	Yes	2B3, 3
	Barbert	4	Depressions	Yes	2B3, 3
	McIntosh	3	Moraines	No	---
	Seaforth	3	Moraines	No	---
141A:					
Egeland loam, 0 to 2 percent slopes	Egeland	85	Moraines	No	---
	Arvilla	6	Outwash plains	No	---
	Sverdrup	5	Outwash plains	No	---
	Rothsay	4	Moraines	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
141B:					
Egeland loam, 2 to 6 percent slopes	Egeland	85	Moraines	No	---
	Arvilla	6	Outwash plains	No	---
	Sverdrup	5	Outwash plains	No	---
	Rothsay	4	Moraines	No	---
160:					
Fieldon fine sandy loam	Fieldon	90	Flats	Yes	2B3
	Glencoe	4	Depressions	Yes	2B3, 3
	Okoboji	3	Depressions	Yes	2B3, 3
	Spicer	2	Flats	Yes	2B3
	Clontarf	1	Moraines	No	---
210:					
Fulda silty clay	Fulda	86	Flats	Yes	2B3
	Dovray	14	Depressions	Yes	2B3, 3
246:					
Marysland clay loam	Marysland	85	Flats	Yes	2B3
	Burr	8	Flood plains	Yes	2B3
	Malachy	7	Outwash plains	No	---
276:					
Oldham silty clay loam	Oldham	85	Depressions	Yes	2B3, 3
	Vallers	6	Flats	Yes	2B3
	Canisteo	5	Flats	Yes	2B3
	Spicer	4	Flats	Yes	2B3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
290B:					
Rothsay silt loam, 1 to 4 percent slopes	Rothsay	85	Moraines	No	---
	Egeland	8	Moraines	No	---
	Zell	7	Moraines	No	---
290B2:					
Rothsay silt loam, 3 to 6 percent slopes, eroded	Rothsay, eroded	85	Moraines	No	---
	Doland	6	Moraines	No	---
	Egeland	5	Moraines	No	---
	Zell	4	Moraines	No	---
319:					
Barbert silt loam	Barbert	85	Depressions	Yes	2B3, 3
	Okoboji	8	Depressions	Yes	2B3, 3
	Webster	7	Flats	Yes	2B3
339A:					
Fordville loam, 0 to 2 percent slopes	Fordville	86	Moraines	No	---
	Arvilla	14	Outwash plains	No	---
339B:					
Fordville loam, 2 to 6 percent slopes	Fordville	86	Moraines	No	---
	Arvilla	14	Outwash plains	No	---
341A:					
Arvilla sandy loam, 0 to 2 percent slopes	Arvilla	90	Moraines	No	---
	Sioux	6	Outwash plains	No	---
	Fordville	4	Outwash plains	No	---
341B:					
Arvilla sandy loam, 2 to 6 percent slopes	Arvilla	90	Moraines	No	---
	Sioux	6	Outwash plains	No	---
	Fordville	4	Outwash plains	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
341C:					
Arvilla sandy loam, 6 to 12 percent slopes	Arvilla	90	Moraines	No	---
	Sioux	10	Outwash plains	No	---
347:					
Malachy loam	Malachy	85	Moraines	No	---
	Arvilla	6	Outwash plains	No	---
	Sioux	5	Outwash plains	No	---
	McIntosh	4	Moraines	No	---
371:					
Clontarf sandy loam, 1 to 3 percent slopes	Clontarf	85	Moraines	No	---
	Fieldon	6	Flats	Yes	2B3
	Egeland	5	Moraines	No	---
	Sverdrup	4	Outwash plains	No	---
402D:					
Sioux gravelly sandy loam, 2 to 40 percent slopes	Sioux	90	Moraines	No	---
	Arvilla	6	Outwash plains	No	---
	Fordville	4	Outwash plains	No	---
421B:					
Ves loam, 1 to 4 percent slopes	Ves	85	Moraines	No	---
	Seaforth	5	Moraines	No	---
	Storden	4	Moraines	No	---
	Normania	3	Moraines	No	---
	Webster	2	Flats	Yes	2B3
	Glencoe	1	Depressions	Yes	2B3, 3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
423:					
Seaforth loam, 1 to 3 percent slopes	Seaforth	86	Moraines	No	---
	Canisteo	14	Flats	Yes	2B3
434:					
Perella silty clay loam	Perella	85	Swales	Yes	2B3
	Okoboji	6	Depressions	Yes	2B3, 3
	Spicer	5	Flats	Yes	2B3
	McIntosh	4	Moraines	No	---
444:					
Canisteo silty clay loam	Canisteo	85	Flats	Yes	2B3
	Okoboji	5	Depressions	Yes	2B3, 3
	Webster	4	Flats	Yes	2B3
	Perella	3	Swales	Yes	2B3
	Seaforth	2	Moraines	No	---
	McIntosh	1	Moraines	No	---
574:					
Du Page loam, occasionally flooded	Du Page, occasionally flooded	85	Moraines	No	---
	Zumbro	6	Flood plains	No	---
	Arvilla	5	Outwash plains	No	---
	Zell	4	Moraines	No	---
575:					
Nishna silty clay, occasionally flooded	Nishna, occasionally flooded	85	Flood plains	Yes	2B3
	Calco	8	Flood plains	Yes	2B3
	Fulda	7	Flats	Yes	2B3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
591B:					
Doland silt loam, 1 to 4 percent slopes	Doland	85	Moraines	No	---
	Tara	6	Moraines	No	---
	Perella	5	Swales	Yes	2B3
	Okoboji	4	Depressions	Yes	2B3, 3
591B2:					
Doland silt loam, 3 to 6 percent slopes, eroded	Doland, eroded	85	Moraines	No	---
	Ves	5	Moraines	No	---
	Tara	4	Moraines	No	---
	Storden	3	Moraines	No	---
	Perella	2	Swales	Yes	2B3
	Okoboji	1	Depressions	Yes	2B3, 3
597:					
Tara silt loam, 1 to 3 percent slopes	Tara	85	Moraines	No	---
	Doland	5	Moraines	No	---
	McIntosh	4	Moraines	No	---
	Okoboji	3	Depressions	Yes	2B3, 3
	Spicer	3	Flats	Yes	2B3
610:					
Calco silty clay loam, frequently flooded	Calco, frequently flooded	85	Flood plains	Yes	2B3, 4
	Terril	8	Moraines	No	---
	Du Page	7	Flood plains	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
878:					
Calco-Du Page complex	Calco, frequently flooded	56	Flood plains	Yes	2B3, 4
	Du Page, occasionally flooded	30	Flood plains	No	---
	Terril	14	Moraines	No	---
883:					
Zumbro-Du Page complex	Zumbro, occasionally flooded	65	Flood plains	No	---
	Du Page, occasionally flooded	25	Flood plains	No	---
923D:					
Copaston-Rock outcrop complex, 2 to 25 percent slopes	Copaston	60	Moraines	No	---
	Rock outcrop	30	Moraines	Unranked	---
	Rothsay	3	Moraines	No	---
	Sioux	2	Outwash plains	No	---
	Zell	2	Moraines	No	---
	Arvilla	1	Outwash plains	No	---
	Marysland	1	Flats	Yes	2B3
	Sverdrup	1	Outwash plains	No	---
953C:					
Arvilla-Storden-Ves complex, 6 to 15 percent slopes	Arvilla	45	Moraines	No	---
	Storden	25	Moraines	No	---
	Ves	20	Moraines	No	---
	Fordville	5	Outwash plains	No	---
	Sioux	3	Outwash plains	No	---
	Sverdrup	2	Outwash plains	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
954B2:					
Ves-Storden loams, 3 to 6 percent slopes, eroded	Ves, eroded	60	Moraines	No	---
	Storden, eroded	30	Moraines	No	---
	Normania	3	Moraines	No	---
	Arvilla	1	Outwash plains	No	---
	Glencoe	1	Depressions	Yes	2B3, 3
	Okoboji	1	Depressions	Yes	2B3, 3
	Seaforth	1	Moraines	No	---
	Sverdrup	1	Outwash plains	No	---
	Terril	1	Moraines	No	---
	Webster	1	Flats	Yes	2B3
954C2:					
Storden-Ves loams, 5 to 12 percent slopes, eroded	Storden, eroded	60	Moraines	No	---
	Ves, eroded	30	Moraines	No	---
	Normania	5	Moraines	No	---
	Terril	3	Moraines	No	---
	Webster	2	Flats	Yes	2B3
954D:					
Storden-Ves loams, 12 to 18 percent slopes	Storden	60	Moraines	No	---
	Ves	30	Moraines	No	---
	Terril	6	Moraines	No	---
	Webster	4	Flats	Yes	2B3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
969B2:					
Zell-Rothsay silt loams, 2 to 6 percent slopes, eroded	Zell, eroded	65	Moraines	No	---
	Rothsay, eroded	25	Moraines	No	---
	Buse	3	Moraines	No	---
	McIntosh	2	Moraines	No	---
	Storden	2	Moraines	No	---
	Perella	1	Swales	Yes	2B3
	Spicer	1	Flats	Yes	2B3
	Tara	1	Moraines	No	---
969C2:					
Zell-Rothsay silt loams, 6 to 12 percent slopes, eroded	Zell, eroded	60	Moraines	No	---
	Rothsay, eroded	30	Moraines	No	---
	Arvilla	3	Outwash plains	No	---
	Buse	2	Moraines	No	---
	Storden	2	Moraines	No	---
	Perella	1	Swales	Yes	2B3
	Sverdrup	1	Outwash plains	No	---
	Terril	1	Moraines	No	---
1003B:					
Udorthents (cut and fill land), 0 to 6 percent slopes	Udorthents, (cut and fill land)	100	Moraines		---
1016:					
Udorthents, loamy	Udorthents, loamy	100	Moraines	Unranked	---
1029:					
Pits, gravel	Pits, gravel	100	Outwash plains, Stream terraces	Unranked	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
1053:					
Aquolls and Aquents, ponded	Aquents, ponded	45	Depressions	Yes	2B2, 3
	Aquolls, ponded	45	Depressions	Yes	2B3, 3
1852F:					
Terril-Swanlake loams, 18 to 70 percent slopes	Terril	50	Moraines	No	---
	Swanlake	35	Moraines	No	---
	Arvilla	6	Outwash plains	No	---
	Sioux	5	Outwash plains	No	---
	Sverdrup	4	Outwash plains	No	---
1867:					
Zumbro-Calco complex	Zumbro, frequently flooded	65	Flood plains	No	---
	Calco, frequently flooded	25	Flood plains	Yes	2B3, 4
	Terril	5	Moraines	No	---
	Du Page	3	Flood plains	No	---
	Nishna	2	Flood plains	Yes	2B3
1868:					
Canisteo stony clay loam	Canisteo	86	Flats	Yes	2B3
	Seaforth	14	Moraines	No	---
1869:					
Du Page-McIntosh variant loams	Du Page, variant, occasionally flooded	60	Moraines	No	---
	McIntosh, variant	30	Moraines	No	---
	Burr	6	Flood plains	Yes	2B3
	Malachy	4	Moraines	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
1870:					
Burr-Calco silty clay loams	Burr, occasionally flooded	70	Flood plains	Yes	2B3
	Calco, occasionally flooded	20	Flood plains	Yes	2B3
	Oldham	4	Depressions	Yes	2B3, 3
	Malachy	3	Moraines	No	---
	McIntosh	2	Moraines	No	---
	Marysland	1	Flats	Yes	2B3
GP:					
Pits, gravel-Udipsamments complex	Pits, gravel	80	Moraines, Outwash plains, Stream terraces		---
	Udipsamments	20	Moraines, Outwash plains, Stream terraces		---
J1A:					
Parnell silty clay loam, depressional, 0 to 1 percent slopes	Parnell, depressional	90	Till plains	Yes	2B3, 3
	Vallers	5	Till plains	Yes	2B3
	Winger	5	Till plains	Yes	2B3
J2A:					
La Prairie loam, 0 to 2 percent slopes, occasionally flooded	La Prairie, occasionally flooded	90	Flood plains	No	---
	Lamoure, occasionally flooded	10	Flood plains	Yes	2B3
J7A:					
Sverdrup sandy loam, 0 to 2 percent slopes	Sverdrup	80	Outwash plains	No	---
	Arveson	5	Outwash plains	Yes	2B3
	Clontarf	5	Outwash plains	No	---
	Egeland	5	Outwash plains	No	---
	Estelline	5	Outwash plains	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
J7B:					
Sverdrup sandy loam, 2 to 6 percent slopes	Sverdrup	85	Outwash plains	No	---
	Clontarf	5	Outwash plains	No	---
	Egeland	5	Outwash plains	No	---
	Estelline	5	Outwash plains	No	---
J11A:					
Vallers clay loam, 0 to 2 percent slopes	Vallers	85	Till plains	Yes	2B3
	Parnell, depressional	10	Till plains	Yes	2B3, 3
	Balaton	5	Till plains	No	---
J12A:					
Marysland loam, 0 to 2 percent slopes	Marysland	85	Outwash plains	Yes	2B3
	Arveson	10	Outwash plains	Yes	2B3
	Marysland, depressional	3	Outwash plains	Yes	2B3, 3
	Malachy	2	Outwash plains	No	---
J23A:					
Lamoure silty clay loam, 0 to 2 percent slopes, occasionally flooded	Lamoure, occasionally flooded	85	Flood plains	Yes	2B3
	Rauville, frequently flooded	10	Flood plains	Yes	2B3, 4
	La Prairie, occasionally flooded	5	Flood plains	No	---
J26B:					
Darnen loam, 2 to 6 percent slopes	Darnen	90	Moraines	No	---
	Hokans	5	Moraines	No	---
	Lakepark	5	Moraines	Yes	2B3

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
J31B:					
Arvilla-Sandberg complex, 2 to 6 percent slopes	Arvilla	45	Outwash plains	No	---
	Sandberg	40	Outwash plains	No	---
	Renshaw	10	Outwash plains	No	---
	Fordtown	5	Outwash plains	No	---
J32A:					
Bigstone silty clay loam, depressional, 0 to 1 percent slopes	Bigstone, depressional	80	Lake plains	Yes	2B3, 3
	Urness, depressional	10	Moraines	Yes	2B3, 3
	Colvin	5	Lake plains	Yes	2B3
	Vallers	5	Till plains	Yes	2B3
J38B:					
Zell-Eckman complex, 2 to 6 percent slopes	Zell	41	Moraines	No	---
	Eckman	39	Moraines	No	---
	Zell, moderately eroded	10	Moraines	No	---
	Egeland	5	Moraines	No	---
	Hantho	5	Moraines	No	---
J38C2:					
Zell-Eckman complex, 6 to 12 percent slopes, moderately eroded	Zell, moderately eroded	46	Moraines	No	---
	Eckman, moderately eroded	20	Moraines	No	---
	Zell	14	Moraines	No	---
	Hantho	10	Moraines	No	---
	Eckman	5	Moraines	No	---
	Egeland	5	Moraines	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
J42C:					
Sandberg-Arvilla complex, 6 to 12 percent slopes	Sandberg	60	Outwash plains	No	---
	Arvilla	30	Outwash plains	No	---
	Everts	10	Outwash plains	No	---
J45F:					
Sandberg sandy loam, 12 to 40 percent slopes	Sandberg	80	Outwash plains	No	---
	Everts	10	Outwash plains	No	---
	Arvilla	5	Outwash plains	No	---
	Sioux	5	Outwash plains	No	---
J48A:					
Bigstone and Parnell soils, ponded, 0 to 1 percent slopes	Bigstone, ponded	40	Moraines	Yes	2B3, 3
	Parnell, ponded	40	Moraines	Yes	2B3, 3
	Colvin	10	Moraines	Yes	2B3
	Vallers	10	Moraines	Yes	2B3
J57A:					
Balaton loam, 1 to 3 percent slopes	Balaton	85	Till plains	No	---
	Tara	5	Till plains	No	---
	Well drained soils	5	Till plains	No	---
	Vallers	3	Till plains	Yes	2B3
	Hamerly	2	Till plains	No	---
J75A:					
Fordville loam, 0 to 2 percent slopes	Fordville	85	Outwash plains	No	---
	Renshaw	10	Outwash plains	No	---
	Spottswood	5	Outwash plains	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
J75B:					
Fordville loam, 2 to 6 percent slopes	Fordville	85	Outwash plains	No	---
	Renshaw	10	Outwash plains	No	---
	Spottswood	5	Outwash plains	No	---
J77A:					
Lamoure silty clay loam, 0 to 2 percent slopes, frequently flooded	Lamoure, frequently flooded	85	Flood plains	Yes	2B3, 4
	Rauville, frequently flooded	10	Flood plains	Yes	2B3, 4
	La Prairie, occasionally flooded	5	Flood plains	No	---
J80A:					
Lamoure-La Prairie complex, channeled, 0 to 2 percent slopes, frequently flooded	Lamoure, channeled, frequently flooded	50	Flood plains	Yes	2B3, 4
	La Prairie, channeled, frequently flooded	40	Flood plains	Yes	4
	Rauville, frequently flooded	10	Flood plains	Yes	2B3, 4
J95E:					
Buse, stony-Wilno complex, 18 to 25 percent slopes	Buse, stony	75	Moraines	No	---
	Wilno	15	Moraines	No	---
	Barnes	5	Moraines	No	---
	Darnen	5	Moraines	No	---
J95F:					
Buse, stony-Wilno complex, 25 to 40 percent slopes	Buse, stony	75	Moraines	No	---
	Wilno	15	Moraines	No	---
	Barnes	5	Moraines	No	---
	Darnen	5	Moraines	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
J96C2:					
Barnes-Buse complex, 6 to 12 percent slopes, moderately eroded	Barnes, moderately eroded	50	Moraines	No	---
	Buse, moderately eroded	30	Moraines	No	---
	Barnes	10	Moraines	No	---
	Darnen	5	Moraines	No	---
	Svea	5	Moraines	No	---
J100D2:					
Buse, eroded-Wilno complex, 12 to 18 percent slopes	Buse, moderately eroded	70	Moraines	No	---
	Wilno	15	Moraines	No	---
	Barnes, moderately eroded	5	Moraines	No	---
	Buse	5	Moraines	No	---
	Darnen	5	Moraines	No	---
J101B:					
Hokans-Svea complex, 1 to 4 percent slopes	Hokans	70	Moraines	No	---
	Svea	20	Moraines	No	---
	Buse	5	Moraines	No	---
	Lakepark	5	Moraines	Yes	2B3
J105A:					
Arvilla sandy loam, 0 to 2 percent slopes	Arvilla	85	Outwash plains	No	---
	Fordtown	5	Outwash plains	No	---
	Fordville	5	Outwash plains	No	---
	Renshaw	5	Outwash plains	No	---

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Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
J106B:					
Barnes-Buse-Svea complex, 1 to 6 percent slopes	Barnes, occasional saturation	60	Till plains	No	---
	Buse	15	Till plains	No	---
	Svea	15	Till plains	No	---
	Barnes, moderately eroded, occasional saturation	9	Till plains	No	---
	Flom	1	Swales	Yes	2B3
J107A:					
Lakepark-Roliss-Parnell, depressional, complex, 0 to 3 percent slopes	Lakepark	35	Moraines	Yes	2B3
	Roliss	25	Moraines	Yes	2B3
	Parnell, depressional	15	Moraines	Yes	2B3, 3
	Svea	10	Moraines	No	---
	Vallers	10	Moraines	Yes	2B3
	Balaton	5	Moraines	No	---
J195B:					
Poinsett silty clay loam, 2 to 6 percent slopes	Poinsett, occasional saturation	80	Lake plains	No	---
	Highpoint Lake	5	Moraines	No	---
	Lake Benton, occasional saturation	5	Moraines	No	---
	Rusklyn	5	Lake plains	No	---
	Waubay	5	Lake plains	No	---

Hydric Soils

Yellow Medicine County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
J198C2:					
Rusklyn-Poinsett complex, 6 to 12 percent slopes, moderately eroded	Rusklyn, moderately eroded	45	Lake plains	No	---
	Poinsett, moderately eroded	40	Lake plains	No	---
	Waubay	10	Lake plains	No	---
	Lake Benton	5	Moraines	No	---
J199A:					
Fulda silty clay, 0 to 2 percent slopes	Fulda	85	Moraines	Yes	2B3
	Highpoint Lake	10	Moraines	No	---
	Somewhat poorly drained soil	5	Moraines	No	---
J227D2:					
Buse, moderately eroded-Sandberg complex, 12 to 18 percent slopes	Buse, moderately eroded	50	Moraines	No	---
	Sandberg	30	Moraines	No	---
	Wilno	10	Moraines	No	---
	Arvilla	5	Moraines	No	---
	Everts	5	Moraines	No	---
J227F:					
Buse-Sandberg complex, 18 to 40 percent slopes	Buse	50	Moraines	No	---
	Sandberg	30	Moraines	No	---
	Wilno	10	Moraines	No	---
	Arvilla	5	Moraines	No	---
	Everts	5	Moraines	No	---

Hydric Soils

Yellow Medicine County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
J232B:					
Barnes-Buse-Arvilla complex, 2 to 6 percent slopes	Barnes, occasional saturation	35	Till plains	No	---
	Buse	30	Till plains	No	---
	Arvilla	25	Moraines	No	---
	Svea	10	Till plains	No	---
J235C2:					
Buse-Barnes-Arvilla complex, 6 to 12 percent slopes, moderately eroded	Buse, moderately eroded	35	Moraines	No	---
	Barnes, moderately eroded	30	Moraines	No	---
	Arvilla	25	Moraines	No	---
	Sandberg	5	Moraines	No	---
	Svea	5	Till plains	No	---
J236A:					
Highpoint lake silty clay, 0 to 2 percent slopes	Highpoint Lake	90	Moraines	No	---
	Fulda	10	Moraines	Yes	2B3
J237A:					
Brensall-Tress complex, 0 to 2 percent slopes	Brensall	70	Till plains	No	---
	Tress	20	Till plains	No	---
	Parnell	9	Till plains	Yes	2B3
	Parnell, depressional	1	Till plains	Yes	2B3, 3
J237B:					
Brensall-Tress complex, 1 to 4 percent slopes	Brensall	60	Till plains	No	---
	Tress	25	Till plains	No	---
	Parnell	10	Till plains	Yes	2B3
	Forman, occasional saturation	5	Till plains	No	---

Hydric Soils

Yellow Medicine County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
J238D2:					
Buse, firm till-Wilno complex, 12 to 18 percent slopes	Buse, firm till, moderately eroded	60	Till plains	No	---
	Wilno	20	Till plains	No	---
	Forman	10	Till plains	No	---
	Darnen	5	Till plains	No	---
	Lamoure, frequently flooded	5	Flood plains	Yes	2B3, 4
J238E:					
Buse, firm till-Wilno complex, 18 to 25 percent slopes	Buse, firm till	75	Till plains	No	---
	Wilno	15	Till plains	No	---
	Darnen	5	Till plains	No	---
	Lamoure, frequently flooded	5	Flood plains	Yes	2B3, 4
J238F:					
Buse, firm till-Wilno complex, 25 to 40 percent slopes	Buse, firm till	75	Till plains	No	---
	Wilno	15	Moraines	No	---
	Darnen	5	Till plains	No	---
	Lamoure, frequently flooded	5	Flood plains	Yes	2B3, 4
J240B:					
Forman-Aastad complex, 3 to 6 percent slopes	Forman, occasional saturation	50	Till plains	No	---
	Aastad	20	Till plains	No	---
	Buse, firm till	10	Till plains	No	---
	Tress	10	Till plains	No	---
	Brensall	5	Till plains	No	---
	Parnell	5	Till plains	Yes	2B3

Hydric Soils

Yellow Medicine County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
J243A:					
Balaton clay loam, 1 to 3 percent slopes	Balaton	90	Till plains	No	---
	Brensall	5	Till plains	No	---
	Vallers	5	Till plains	Yes	2B3
J250C2:					
Forman-Buse complex, 6 to 12 percent slopes, moderately eroded	Forman, moderately eroded	45	Till plains	No	---
	Buse, moderately eroded, firm till	40	Till plains	No	---
	Aastad	10	Till plains	No	---
	Darnen	5	Till plains	No	---
J251A:					
Parnell silty clay loam, firm till, 0 to 2 percent slopes	Parnell, firm till	75	Till plains	Yes	2B3
	Tress	10	Till plains	No	---
	Badger	5	Till plains	No	---
	Lakepark, overwash	5	Till plains	No	---
	Lakepark, frequently flooded	4	Moraines	Yes	2B3
	Parnell, depressional	1	Till plains	Yes	2B3, 3
L84A:					
Glencoe clay loam, depressional, 0 to 1 percent slopes	Glencoe, depressional	80	Depressions, Moraines	Yes	2B3, 3
	Very poorly drained muck	10	Depressions, Moraines	Yes	2B3
	Canisteo	5	Depressions, Flats, Moraines, Rims	Yes	2B3
	Harps	5	Depressions, Rims	Yes	2B3

Hydric Soils

Yellow Medicine County, Minnesota

Map symbol and map unit name	Component	Percent of map unit	Landform	Hydric rating	Hydric criteria
L201A:					
Normania loam, 0 to 3 percent slopes	Normania	85	Flats, Moraines, Rises	No	---
	Amiret	7	Hills, Moraines	No	---
	Seaforth	3	Flats, Moraines, Rises	No	---
	Webster	3	Flats, Moraines, Swales	Yes	2B3
	Canisteo	2	Depressions, Flats, Moraines, Rims	Yes	2B3
M-W:					
Water, miscellaneous	Water, miscellaneous	100	---		---
W:					
Water	Water	100	---		---

Hydric Soils

This table lists the map unit components that are rated as hydric soils in the survey area. This list can help in planning land uses; however, onsite investigation is recommended to determine the hydric soils on a specific site (National Research Council, 1995; Hurt and others, 2002).

The three essential characteristics of wetlands are hydrophytic vegetation, hydric soils, and wetland hydrology (Cowardin and others, 1979; U.S. Army Corps of Engineers, 1987; National Research Council, 1995; Tiner, 1985). Criteria for all of the characteristics must be met for areas to be identified as wetlands. Undrained hydric soils that have natural vegetation should support a dominant population of ecological wetland plant species. Hydric soils that have been converted to other uses should be capable of being restored to wetlands.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). These soils, under natural conditions, are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2003) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and others, 2002).

Hydric soils are identified by examining and describing the soil to a depth of about 20 inches. This depth may be greater if determination of an appropriate indicator so requires. It is always recommended that soils be excavated and described to the depth necessary for an understanding of the redoximorphic processes. Then, using the completed soil descriptions, soil scientists can compare the soil features required by each indicator and specify which indicators have been matched with the conditions observed in the soil. The soil can be identified as a hydric soil if at least one of the approved indicators is present.

Map units that are dominantly made up of hydric soils may have small areas, or inclusions, of nonhydric soils in the higher positions on the landform, and map units dominantly made up of nonhydric soils may have inclusions of hydric soils in the lower positions on the landform.

The criteria for hydric soils are represented by codes in the table (for example, 2B3). Definitions for the codes are as follows:

1. All Histels except for Folistels, and Histosols except for Folists.
2. Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Historthels great group, Histoturbels great group, Pachic subgroups, or Cumulic subgroups that:
   A. are somewhat poorly drained and have a water table at the surface (0.0 feet) during the growing season, or
   B. are poorly drained or very poorly drained and have either:
      1) a water table at the surface (0.0 feet) during the growing season if textures are coarse sand, sand, or fine sand in all layers within a depth of 20 inches, or
      2) a water table at a depth of 0.5 foot or less during the growing season if permeability is equal to or greater than 6.0 in/hr in all layers within a depth of 20 inches, or
      3) a water table at a depth of 1.0 foot or less during the growing season if permeability is less than 6.0 in/hr in any layer within a depth of 20 inches.
3. Soils that are frequently ponded for long or very long duration during the growing season.
4. Soils that are frequently flooded for long or very long duration during the growing season.

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